

TATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
PUBLIC NOTICE NO. 20210630 – IN0020982 – D
DATE OF NOTICE: JUNE 30, 2021
DATE RESPONSE DUE: JULY 30, 2021

The Office of Water Quality proposes the following NPDES DRAFT PERMIT:

MAJOR – MODIFICATION

UNION CITY (city) WWTP, Permit No. IN0020982, RANDOLPH COUNTY, 825 North Jackson Pike, Union City, IN. This modification is to revise the facility description on Page 2 of the permit and to add total nitrogen monitoring. Permit Manager: Jay Hanko, 317/233-0704, jhanko@idem.in.gov. Posted online at <https://www.in.gov/idem/6408.htm>.

PROCEDURES TO FILE A RESPONSE

Draft can be viewed or copied (10¢ per page) at IDEM/OWQ NPDES PS, 100 North Senate Avenue, (Rm 1203) Indianapolis, IN, 46204 (east end elevators) from 9 – 4, Mon - Fri, (except state holidays). A copy of the Draft Permit is on file at the local County Health Department. Please tell others you think would be interested in this matter. For your rights & responsibilities see: Public Participation Guide: <http://www.in.gov/idem/5474.htm> or Citizens' Guide to IDEM: <https://www.in.gov/idem/6900.htm>.

Response Comments: The proposed decision to issue a permit is tentative. Interested persons are invited to submit written comments on the Draft permit. All comments must be postmarked no later than the Response Date noted to be considered in the decision to issue a Final permit. Deliver or mail all requests or comments to the attention of the Permit Writer at the above address, (mail code 65-42 PS).

To Request a Public Hearing:

Any person may request a Public Hearing. A written request must be submitted to the above address on or before the Response Date noted. The written request shall include: the name and address of the person making the request, the interest of the person making the request, persons represented by the person making the request, the reason for the request and the issues proposed for consideration at the Hearing. IDEM will determine whether to hold a Public Hearing based on the comments and the rationale for the request. Public Notice of such a Hearing will be published in at least one newspaper in the geographical area of the discharge and sent to anyone submitting written comments and/or making such request and whose name is on the mailing list at least 30 days prior to the Hearing.



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

100 N. Senate Avenue • Indianapolis, IN 46204
(800) 451-6027 • (317) 232-8603 • www.idem.IN.gov

Eric J. Holcomb
Governor

Bruno Pigott
Commissioner

June 30, 2021

VIA ELECTRONIC MAIL

The Honorable Chad Spence, Mayor
City of Union City
105 North Columbia Street
Union City, IN 47390

Dear Mayor Spence:

Re: Draft Modification NPDES Permit No. IN0020982
Union City Wastewater Treatment Plant
Randolph County

Your request for permit modification, submitted June 8, 2021, has been reviewed and processed in accordance with rules adopted under 327 IAC 5. Enclosed is the draft modification of NPDES Permit No. IN0020982 which applies to the discharge from the Union City Wastewater Treatment Plant (WWTP). The enclosed Pages 1 through 4a of 41 are intended to replace the corresponding pages in the facility's current permit.

Pursuant to IC 13-15-5-1, IDEM will publish the draft permit document online at <https://www.in.gov/idem/5474.htm>. Additional information on public participation can be found in the "Citizens' Guide to IDEM", available at <https://www.in.gov/idem/6900.htm>. A 30-day comment period is available in order to solicit input from interested parties, including the general public.

Please review this document carefully and become familiar with the proposed terms and conditions. Comments concerning the draft permit should be submitted in accordance with the procedure outlined in the enclosed public notice form. If you have any questions concerning this modification, please contact Jay Hanko at 317/233-0704 or Jhanko@idem.IN.gov.

Sincerely,

Leigh Voss, Chief
Municipal NPDES Permits Section
Office of Water Quality

Enclosures

cc: Rob Myers, Wastewater Superintendent
Mark Sullivan, Midwestern Engineers

STATE OF INDIANA
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AMENDED AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq., the "Clean Water Act") or (CWA), and IDEM's authority under IC 13-5, the Indiana Department of Environmental Management (IDEM) is issuing this permit to the

CITY OF UNION CITY

hereinafter referred to as "the permittee." The permittee owns and/or operates the **Union City Wastewater Treatment Plant**, a major municipal wastewater treatment plant located at 825 North Jackson Pike, Union City, Indiana in Randolph County. The permittee is hereby authorized to discharge from the outfalls identified in Part I of this permit to receiving waters named the Little Mississinewa River in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in the permit. This permit may be revoked for the nonpayment of applicable fees in accordance with IC 13-18-20.

The permit, as issued on October 2, 2018 is hereby amended as contained herein. The amended provisions shall become effective on _____. All terms and conditions of the permit not modified at this time remain in effect. Further, any existing condition or term affected by the modifications will remain in effect until the modified provisions become effective.

This permit and authorization to discharge, as amended, shall expire at midnight, November 30, 2023. In order to receive authorization to discharge beyond the date of expiration, the permittee shall submit such information and forms as are required by the Indiana Department of Environmental Management no later than 180 days prior to the date of expiration.

Issued on _____ for the Indiana Department of Environmental Management.

Jerry Dittmer, Chief
Permits Branch
Office of Water Quality

TREATMENT FACILITY DESCRIPTION

The permittee currently operates a Class III, 1.5 MGD wastewater treatment facility consisting of a main lift station, an earthen equalization basin, headworks treatment including a drum screen followed by a vortex grit removal tank. Excess flow, due to I&I, is diverted to a flow equalization basin prior to the headworks and is returned back to the process during normal low flow patterns. Following the headworks, transfer pumps convey the process flow to a three-channel oxidation ditch and two (2) final clarifiers, ultraviolet light disinfection, step post aeration and an effluent flow meter. Secondary sludges are aerobically digested and dewatered via polymer addition and applied to a gravity sand drying bed or pumped to a bagging system and is trucked to a landfill for ultimate disposal.

The collection system is comprised of 100% separate sanitary sewers by design with two (2) Sanitary Sewer Overflow (SSO) points. The SSO locations have been identified and prohibited in Attachment A of the permit.

PART I

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from the outfall listed below in accordance with the terms and conditions of this permit. The permittee shall take samples and measurements at a location representative of each discharge to determine whether the effluent limitations have been met. Refer to Part I.B of this permit for additional monitoring and reporting requirements.

- Beginning on the effective date of this permit, the permittee is authorized to discharge from Outfall 001, which is located at Latitude: 40° 12' 40" N, Longitude: 84° 49' 28" W. The discharge is subject to the following requirements:

TABLE 1

Parameter	Quantity or Loading			Quality or Concentration			Monitoring Requirements	
	Monthly Average	Weekly Average	Units	Monthly Average	Weekly Average	Units	Measurement Frequency	Sample Type
Flow [1]	Report	----	MGD	----	----	----	5 X Weekly	24-Hr. Total
CBOD ₅	125	188	lbs/day	10	15	mg/l	5 X Weekly	24-Hr. Comp.
TSS	125	188	lbs/day	10	15	mg/l	5 X Weekly	24-Hr. Comp.
Ammonia-nitrogen								
Summer [2]	21.3	32.5	lbs/day	1.7	2.6	mg/l	5 X Weekly	24-Hr. Comp.
Winter [3]	27.5	41.3	lbs/day	2.2	3.3	mg/l	5 X Weekly	24-Hr. Comp.
Phosphorus [4]								
Interim	Report	----	lbs/day	Report	----	mg/l	Monthly	24-Hr. Comp.
Final	Report	----	lbs/day	1.0	----	mg/l	5 X Weekly	24-Hr. Comp.
Nitrogen, Total (as N) [10]	Report	----	lbs/day	Report	----	mg/l	Monthly	24-Hr. Comp.

TABLE 2

Parameter	Quality or Concentration				Monitoring Requirements	
	Daily Minimum	Monthly Average	Daily Maximum	Units	Measurement Frequency	Sample Type
pH [5]	6.0	----	9.0	s.u.	5 X Weekly	Grab
Dissolved Oxygen [6]						
Summer [2]	6.0	----	----	mg/l	5 X Weekly	4 Grabs/24-Hrs.
Winter [3]	5.0	----	----	mg/l	5 X Weekly	4 Grabs/24-Hrs.
<i>E.coli</i> [7]	----	125 [8]	235 [9]	cfu/100 ml	5 X Weekly	Grab

- [1] Effluent flow measurement is required per 327 IAC 5-2-13. The flow meter(s) shall be calibrated at least once every twelve months.
- [2] Summer limitations apply from May 1 through November 30 of each year.
- [3] Winter limitations apply from December 1 through April 30 of each year.
- [4] Refer to the Schedule of Compliance in Part I.E. of this permit.
- [5] If the permittee collects more than one grab sample on a given day for pH, the values shall not be averaged for reporting daily maximums or daily minimums. The permittee must report the individual minimum and the individual maximum pH value of any sample during the month on the Monthly Report of Operation forms.
- [6] The daily minimum concentration of dissolved oxygen in the effluent shall be reported as the arithmetic mean determined by summation of the four (4) daily grab sample results divided by the number of daily grab samples. These samples are to be collected over equal time intervals.
- [7] The effluent shall be disinfected on a continuous basis such that violations of the applicable bacteriological limitations (*E. coli*) do not occur from April 1 through October 31, annually.

The *Escherichia coli* (*E. coli*) limitations apply from April 1 through October 31 annually.

- [8] The monthly average *E. coli* value shall be calculated as a geometric mean. Per 327 IAC 5-10-6, the concentration of *E. coli* shall not exceed one hundred twenty-five (125) cfu or mpn per 100 milliliters as a geometric mean of the effluent samples taken in a calendar month. No samples may be excluded when calculating the monthly geometric mean.

[9] If less than ten samples are taken and analyzed for *E. coli* in a calendar month, no samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. However, when ten (10) or more samples are taken and analyzed for *E. coli* in a calendar month, not more than ten percent (10%) of those samples may exceed two hundred thirty-five (235) cfu or mpn as a daily maximum. When calculating ten percent, the result must not be rounded up. In reporting for compliance purposes on the Discharge Monitoring Report (DMR) form, the permittee shall record the highest non-excluded value for the daily maximum.

[10] Total Nitrogen shall be determined by testing Total Kjeldahl Nitrogen (TKN) and Nitrate + Nitrite and reporting the sum of the TKN and Nitrate + Nitrite results (reported as N). Nitrate + Nitrite can be analyzed together or separately. Monitoring for Total Nitrogen is required in the effluent only.

The following EPA methods are recommended for use in the analysis of TKN and Nitrate + Nitrite. Alternative approved 40 CFR 136 methods may be utilized.

<u>Parameter</u>	<u>Method</u>
TKN	350.1, 351.1, 351.2
Nitrate	300.0, 300.1, 352.1
Nitrite	300.1, 353.2
Nitrate + Nitrite	300.0, 300.1, 353.2

2. Minimum Narrative Limitations

At all times the discharge from any and all point sources specified within this permit shall not cause receiving waters:

- a. including waters within the mixing zone, to contain substances, materials, floating debris, oil, scum attributable to municipal, industrial, agricultural, and other land use practices, or other discharges that do any of the following:
 - (1) will settle to form putrescent or otherwise objectionable deposits;
 - (2) are in amounts sufficient to be unsightly or deleterious;
 - (3) produce color, visible oil sheen, odor, or other conditions in such degree as to create a nuisance;
 - (4) are in amounts sufficient to be acutely toxic to, or to otherwise severely injure or kill aquatic life, other animals, plants, or humans;

- (5) are in concentrations or combinations that will cause or contribute to the growth of aquatic plants or algae to such a degree as to create a nuisance, be unsightly, or otherwise impair the designated uses.
- b. outside the mixing zone, to contain substances in concentrations that on the basis of available scientific data are believed to be sufficient to injure, be chronically toxic to, or be carcinogenic, mutagenic, or teratogenic to humans, animals, aquatic life, or plants.

B. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge flow and shall be taken at times which reflect the full range and concentration of effluent parameters normally expected to be present. Samples shall not be taken at times to avoid showing elevated levels of any parameters.

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**National Pollutant Discharge Elimination System
Fact Sheet for
Union City Wastewater Treatment Plant
Draft: June 2021
Final: TBD**

Indiana Department of Environmental Management

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

Permittee:	The Honorable Chad Spence, Mayor City of Union City 105 N. Columbia St. Union City, IN 47390 765-964-6534 mayor@unioncity-in.gov
Existing Permit Information:	Permit Number: IN0020982 Expiration Date: November 30, 2023
Facility Contact:	Rob Myers, Wastewater Superintendent 765-964-5544 robert.myers.wwtp@gmail.com
Facility Location:	825 North Jackson Pike Union City, Indiana Randolph County
Receiving Stream:	Little Mississinewa River
GLI/Non-GLI:	Non-GLI
Proposed Permit Action:	Modification
Date Application Received:	June 8, 2021
Facility Category	NPDES Major Municipal
Permit Writer:	Jay Hanko 317/233-0704 Jhanko@idem.IN.gov

Outfall Location

NPDES Permit No. IN0020982

Background

This is the modification of the NPDES permit for the Union City Wastewater Treatment Plant. The facility's current permit was effective on December 1, 2018 and has an expiration date of November 30, 2023. A request for permit modification was received from the permittee on June 8, 2021.

Union City is in the process of replacing the wastewater treatment plant. The permittee requests a permit modification to revise the facility description on Page 2 of 41 of the permit. Effluent limits, terms, and conditions of the permit have not changed with the exception of the addition of total nitrogen monitoring which is included with all POTWs with an average design flow greater than 1.0 MGD.

Modification

The following changes have been made for the modification of the NPDES permit:

Page 1 of 41 This page has been modified to reflect the modification effective date for the permit.

Page 2 of 41 This page has been modified to reflect the design summary which describes the new treatment plant.

Additionally, total-nitrogen monitoring requirements have been included in the modification. The permit requires that total nitrogen be monitored and report at a minimum of one (1) time monthly. Both the concentration and associated loading values must be reported. Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and Nitrate + Nitrite Nitrogen and reporting the sum of the TKN and Nitrate + Nitrite results (reported as N). Nitrate + Nitrite can be analyzed together or separately.

Pages 3-4a of 41 These pages have been modified to include footnote [10] for Total Nitrogen monitoring and to maintain page numbering continuity.

Expiration Date

The expiration date of the permit has not changed. The permit, as modified, will expire at midnight on November 30, 2023.